AMENDMENT TO THE CLAIMS

1. (Previously Amended) A process for the production of at least two-ply paper laminates, the process comprising:

applying a water-soluble hotmelt adhesive having a solubility in water at 20° C of at least 3% by weight to a first layer of paper, the hotmelt adhesive comprising one or more polyurethanes having a molecular weight (M_n) of at least 2,000 and wherein a 0.3% by weight solution of the hotmelt adhesive in water has an upper cloud point of at least 60° C, and

laminating at least a second layer of paper onto the adhesive side of the first layer.

2-12. (Canceled)

- 13. (Previously Presented) A process as in claim 1 wherein the hotmelt adhesive has a melt viscosity (Brookfield Thermocell, spindle 27) of 400 to 20,000 mPa.s at a temperature of 100 to 180°C.
- 14. (Previously Presented) A process as in claim 1 wherein the hotmelt adhesive has an open time of at least 0.2 second.
- 15. (Previously Presented) A process as in claim 1 wherein the hotmelt adhesive has a crystallinity (as measured by DSC) of at least about 20% of the value measured for polyethylene glycol with a molecular weight (M_n) of 6,000.

16-17. (Canceled)

18. (Previously Amended) A process as in claim 37 wherein the nonionic polyurethane is a reaction product of at least one polyisocyanate with at least one polyalkylene glycol having a molecular weight of at least 1,550.

19-25. (Canceled)

26. (Previously Amended) A hygiene paper comprising:

a first layer of paper secured to a second layer of paper by a hotmelt adhesive having a solubility in water at 20° C of at least 3% by weight and comprising one or more polyurethanes having a molecular weight (M_n) of at least 2,000, wherein a 0.3% by weight solution of the hotmelt adhesive in water has an upper cloud point of at least 60° C.

27. (Canceled)

- 28. (Currently Amended) A hygiene paper as in claim +26 wherein the hotmelt adhesive has a melt viscosity (Brookfield Thermocell, spindle 27) of 400 to 20,000 mPa.s at a temperature of 100 to 180°C.
- 29. (Currently Amended) A hygiene paper as in claim +26 wherein the hotmelt adhesive has an open time of at least 0.2 second.
- 30. (Currently Amended) A hygiene paper as in claim ± 26 wherein the hotmelt adhesive has a crystallinity (as measured by DSC) of at least about 20% of the value measured for polyethylene glycol with a molecular weight (M_n) of 6,000.

31. (Canceled)

32. (Currently Amended) A process for the production of at least two-ply paper laminates comprising:

applying a hotmelt adhesive to at least a portion of a first layer of paper, the hotmelt adhesive comprising a polyurethane obtained from a polyurethane reaction mixture containing a hydrophobic diol having a hydrophobic moiety containing from 6 to 36 carbon atoms; and contacting a second layer of paper with the hotmelt adhesive.

33. (Previously Presented) The process of Claim 32 wherein the polyurethane reaction mixture further comprises at least one polyisocyanate and a polyol.

- 34. (Previously Presented) The process of Claim 33 wherein the at least one polyol comprises a polyalkylene oxide.
- 35. (Currently Amended) A process for the production of at least two-ply paper laminates comprising:

applying a hotmelt adhesive to at least a portion of a first layer of paper, the hotmelt adhesive comprising a polyurethane obtained from a polyurethane reaction mixture containing a hydrophobic structural element obtained by reacting at least one NCO-terminated oligomer with a reactant selected from the group consisting of mono-ols and monofunctional amines; and contacting a second layer of paper with the hotmelt adhesive.

- 36. (Previously Amended) The process of Claim 32 wherein the hydrophobic diol is selected from the group consisting of 1,10-decanediol, 1,12-dodecanediol, 1,12-octadecanediol, dimer fatty acid diol, 1,2-octanediol, 1,2-dodecanediol, 1,2-hexadecanediol, 1,2-octadecanediol, 1,2-tetradecanediol, 4,4-isopropylidene dicyclohexanol, 4,8-bis(hydroxymethyl)tricyclo-[5,2,1,0^{2.6}]decanes, 1,4:3,6-dianhydro-D-mannitol, 1,4:3,6-dianhydro-D-sorbitol, 1,16-hexadecanediol, biosphenol A, monofatty acid esters of glycerol with fatty acids containing up to 22 carbon atoms, and mixtures thereof.
- 37. (Previously Presented) A process as in claim 1 wherein the polyurethanes of the hot melt adhesive are nonionic polyurethanes.
- 38. (Withdrawn) A process as in claim 1 wherein the polyurethanes of the hot melt adhesive are ionic polyurethanes.
- 39. (Previously Presented) A process as in claim 1 wherein the two-ply paper laminates are two-ply hygiene paper laminates.

- 40. (Previously Presented A process as in claim 39 wherein the two-ply hygiene paper laminates are kitchen rolls, paper towels, paper handkerchiefs, paper napkins, toilet papers or diapers.
- 41. (Previously Presented) A hygiene paper as in claim 26 wherein the polyurethanes of the hot melt adhesive are nonionic polyurethanes.
- 42. (Previously Presented) A hygiene paper as in claim 41 wherein the nonionic polyurethane is a reaction product of at least one polyisocyanate with at least one polyalkylene glycol having a molecular weight of at least 1,550.
- 43. (Withdrawn) A hygiene paper as in Claim 26 wherein the polyurethanes of the hot melt adhesive are ionic polyurethanes.
- 44. (Previously Presented) A hygiene paper as in Claim 26 which is a kitchen roll, paper towel, paper handkerchief, paper napkin, toilet paper or diaper.
- 45. (Previously Presented) The process of Claim 32 wherein the polyurethane of the hot melt adhesive is a nonionic polyurethane.
- 46. (Previously Presented) The process of Claim 45 wherein the nonionic polyurethane is a reaction product of at least one polyisocyanate with at least one polyalkylene glycol having a molecular weight of at least 1,550.
- 47. (Previously Presented) The process of Claim 33 wherein the at least one polyol comprises a hydrophobic homopolymeric polyalkylene glycol.

- 48. (Withdrawn) The process of Claim 32 wherein the polyurethane of the hot melt adhesive is an ionic polyurethane.
- 49. (Previously Presented) The process of Claim 35 wherein the polyurethane reaction mixture further comprises at least one polyisocyanate and a polyol.
- 50. (Previously Presented) The process of Claim 49 wherein the at least one polyol comprises a polyalkylene oxide.
- 51. (Currently Amended) The process of Claim 46-49 wherein the at least one polyol comprises a hydrophobic homopolymeric polyalkylene glycol.
- 52. (Previously Presented The process of Claim 35 wherein the polyurethane of the hot melt adhesive is a nonionic polyurethane.
- 53. (Previously Presented) The process of Claim 52 wherein the nonionic polyurethane is a reaction product of at least one polyisocyanate with at least one polyalkylene glycol having a molecular weight of at least 1,550.
- 54. (Withdrawn) The process of Claim 35 wherein the polyurethane of the hot melt adhesive is an ionic polyurethane.